

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-17 (Canceled)

¹
~~18.~~ (Previously Presented) A method of applying an adhesive to a site of application on a tissue work surface, comprising:

providing an applicator configured to apply a multiple component adhesive and suction to the tissue work surface;

controllably applying suction to said tissue work surface from the applicator;

applying an adhesive to said tissue work surface from the applicator; and

²
removing materials from the site of application with said suction.

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~~19.~~ (Previously Presented) The method of claim ~~18~~ wherein said adhesive comprises a multiple component material.

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~~20.~~ (Previously Presented) The method of claim ~~18~~ wherein said multiple component material is a fibrinogen tissue adhesive.

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~~21.~~ (Previously Presented) The method of claim ~~18~~ A method of applying an adhesive to a site of application on a tissue work surface, comprising:

providing an applicator configured to apply a multiple component adhesive and suction to the tissue work surface, wherein said tissue work surface comprises a mammalian tissue work surface;

controllably applying suction to said tissue work surface from the applicator;

applying an adhesive to said tissue work surface from the applicator; and

removing materials from the site of application with said suction.

⁶
~~22.~~ (Previously Presented) A method of applying an adhesive to a site of application on a tissue work surface, comprising:

providing an adhesive applicator comprising at least one reservoir to store said

adhesive, a dispensing actuator in communication with said at least one reservoir, and a suction actuator in communication with a suction source;

actuating said suction actuator to controllably apply suction to said tissue work surface;

actuating said dispensing actuator to apply a dispensing pressure to said at least one reservoir;

effecting an adhesive flow from the adhesive applicator;

applying said adhesive flow to said work surface;

releasing said dispensing actuator to terminate the application of said dispensing pressure to said at least one reservoir;

terminating said adhesive flow; and

actuating said suction actuator to controllably apply suction to said tissue work surface to remove materials from the site of application on said tissue work surface.

⁷
23. (Previously Presented) A method of applying an adhesive to a site of application on a tissue work surface, comprising:

providing an applicator having at least two reservoirs each containing at least one adhesive component, a dispensing actuator in communication with the reservoirs, and a suction actuator in communication with a suction source;

actuating said suction actuator to controllably apply suction to said tissue work surface;

actuating said dispensing actuator to applying an equal dispensing pressure to each of said at least two reservoirs;

effecting a flow of at least two adhesive components from the reservoirs within the applicator; and

mixing said components to form a multiple component material within said applicator;

applying said adhesive flow to said work surface;

releasing said dispensing actuator to terminate the application of said dispensing pressure to the reservoirs;

terminating said adhesive flow; and

actuating said suction actuator to controllably apply suction to said tissue work surface to remove materials from the site of application on said tissue work surface.

~~8~~ 24. (Previously Presented) The method of claim ~~23~~⁷ wherein said applicator further comprises a mixing tip in communication with each of said at least two reservoirs and said dispensing actuator.

~~9~~ 25. (Previously Presented) A method of applying an adhesive to a site of application on a tissue work surface, comprising:

providing an adhesive applicator comprising at least one reservoir to store said adhesive, a dispensing actuator in communication with said at least one reservoir, and a suction actuator in communication with a suction source;

actuating said suction actuator to controllably apply suction to said tissue work surface;

actuating said dispensing actuator to apply a dispensing pressure at discreet intervals to said at least one reservoir;

effecting an adhesive flow from the adhesive applicator;

applying said adhesive flow to said work surface;

releasing said dispensing actuator to terminate the application of said dispensing pressure to said at least one reservoir;

terminating said adhesive flow; and

actuating said suction actuator to controllably apply suction to said tissue work surface to remove materials from the site of application on said tissue work surface.

~~10~~ 26. (Previously Presented) The method of claim ~~22~~⁶ wherein said adhesive is a fibrinogen tissue adhesive.

~~11~~ 27. (Previously Presented) A method of applying an adhesive to a site of application on a tissue work surface, comprising:

providing an adhesive applicator comprising at least one reservoir to store said adhesive, a dispensing actuator in communication with said at least one reservoir, and a suction actuator in communication with a suction source;

actuating said suction actuator to controllably apply suction to said tissue work

surface, wherein said tissue work surface comprises a mammalian tissue work surface;

actuating said dispensing actuator to apply a dispensing pressure to said at least one reservoir;

effecting an adhesive flow from the adhesive applicator;

applying said adhesive flow to said work surface;

releasing said dispensing actuator to terminate the application of said dispensing pressure to said at least one reservoir;

terminating said adhesive flow; and

actuating said suction actuator to controllably apply suction to said tissue work surface to remove materials from the site of application on said tissue work surface.

¹²
28. (Previously Presented) A method of applying a multiple component adhesive to a tissue work surface, comprising:

providing an adhesive applicator comprising at least two reservoirs to separately store adhesive components, a dispensing actuator in communication with said at least two reservoirs, a suction actuator in communication with a suction source, and a mixing tip in communication with said at least two reservoirs;

actuating said dispensing actuator to apply a dispensing pressure to said at least two reservoirs;

effecting a flow of each of said adhesive components within the applicator;

mixing said adhesive components to form a mixed adhesive within the applicator;

applying said mixed adhesive to said tissue work surface;

releasing said dispensing actuator to terminate the application of said dispensing pressure to said at least two reservoirs;

terminating said flow of each of said adhesive components; and

actuating said suction actuator to controllably apply suction to said tissue work surface to remove excess components from said tissue work surface.

¹³
29. (Previously Presented) A method of applying a multiple component adhesive to a tissue work surface, comprising:

providing an adhesive applicator comprising at least two reservoirs to separately

store adhesive components, a dispensing actuator in communication with said at least two reservoirs, a suction actuator in communication with a suction source, and a mixing tip in communication with said at least two reservoirs;

actuating said dispensing actuator to apply a dispensing pressure to said at least two reservoirs;

effecting a flow of each of said adhesive components within the applicator;

mixing said adhesive components to form a mixed adhesive within the applicator, wherein said mixing further comprises providing a mixing head comprising a dispensing tip in communication with a mixing channel in communication with at least two channels in communication with said at least two reservoirs, receiving each of said adhesive components from said at least two channels in said mixing channel, mixing said adhesive components to within said mixing channel, and applying said mixed adhesive from said dispensing tip to said work surface;

applying said mixed adhesive to said tissue work surface;

releasing said dispensing actuator to terminate the application of said dispensing pressure to said at least two reservoirs;

terminating said flow of each of said adhesive components; and

actuating said suction actuator to controllably apply suction to said tissue work surface to remove excess components from said tissue work surface.

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~~30~~. (Previously Presented) The method of claim ¹³~~29~~ further comprising providing a suction channel in communication with said suction source.

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~~31~~. (Previously Presented) The method of claim ¹⁴~~30~~ further comprising positioning said suction channel proximate to said dispensing tip.

¹⁶
~~32~~. (Previously Presented) The method of claim ¹²~~28~~ further comprising applying said dispensing pressure at discrete intervals.

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~~33~~. (Previously Presented) The method of claim ¹²~~28~~ wherein said adhesive is a fibrinogen tissue adhesive.

¹⁸
~~34~~. (Previously Presented) A method of applying a multiple component adhesive to a tissue work surface, comprising:

providing an adhesive applicator comprising at least two reservoirs to separately store adhesive components, a dispensing actuator in communication with said at least two reservoirs, a suction actuator in communication with a suction source, and a mixing tip in communication with said at least two reservoirs;

actuating said dispensing actuator to apply a dispensing pressure to said at least two reservoirs;

effecting a flow of each of said adhesive components within the applicator;

mixing said adhesive components to form a mixed adhesive within the applicator;

applying said mixed adhesive to said tissue work surface, wherein said tissue work surface comprises a mammalian tissue;

releasing said dispensing actuator to terminate the application of said dispensing pressure to said at least two reservoirs;

terminating said flow of each of said adhesive components; and

actuating said suction actuator to controllably apply suction to said tissue work surface to remove excess components from said tissue work surface.

19
35. (Previously Presented) A method of applying a multiple component fibrinogen tissue adhesive to a tissue work surface, comprising:

providing an adhesive applicator comprising:

- a) at least two reservoirs to separately store adhesive components;
- b) a dispensing actuator in communication with said at least two reservoirs;

c) a suction actuator in communication with a suction source; and

d) a mixing head in communication with said at least two reservoirs, said mixing head having a dispensing tip in communication with a mixing channel, said mixing channel in communication with at least two channels, said at least two channels in communication with said at least two reservoirs, and a suction channel in communication with said suction source;

actuating said dispensing actuator to apply a dispensing pressure to said at least two reservoirs;

effecting a flow of each of said adhesive components within said at least two channels;

receiving within said mixing channel said flow of said adhesive components from said at least two channels;

mixing said adhesive components within said mixing channel to form a mixed adhesive;

applying said mixed adhesive from said dispensing tip to said tissue work surface;

releasing said dispensing actuator to terminate the application of said dispensing pressure to said at least two reservoirs;

terminating said flow of each of said adhesive components within said at least two channels; and

actuating said suction actuator to controllably apply suction from said suction channel to said tissue work surface to remove excess adhesive components from said tissue work surface.

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~~36~~. (Previously Presented) The method of claim ¹~~18~~ wherein the materials removed from the site of application comprises multiple component adhesive.

²⁰
~~37~~. (Previously Presented) The method of claim ¹⁹~~35~~ wherein the suction channel is configured so as not to interfere visually or functionally with application of the adhesive.